1) Difference between temp table and table variable in sql server 2005?

| **Temp Table** | **Table Variable** |
| --- | --- |
| Temp table is valid for a session.  For eg: when you run the following code  create table #temp(i int)  insert into #temp select 345  Go  create table #temp(i int)  insert into #temp select 345  Go  you will get an error | Table variable has a statement-level scope. ie as soon as you execute the statement the scope is lost  For eg: when you run the following code  declare @t table(i int)  insert into @t select 45  GO  declare @t table(i int)  insert into @t select 45  GO  you will not get an error |
| It is possible to alter the temp table to add columns, idexes,etc | It is not possible to alter a table variable |
| It is possible to truncate a temp table | It is not possible to truncate a table variable |
| SELECT INTO method can be used for temp table  SELECT \* INTO #temp from your\_table | SELECT INTO method cannot be used for table variable. You get error for the following  SELECT \* INTO @t from your\_table |
| Temp table can be useful when you have a large amount of data | For small set of data, table variables can be useful |